Fire Fighter 1
(NFPA Fire Fighter I, HazMat/WMD FRA and FRO, and Wildland Fire Fighter 1)

Fire Fighter 1


Published: January 2020
Revised: December 2020

This CTS guide utilizes the following NFPA standards to provide the qualifications for State Fire Training’s Fire Fighter 1 (2019) certification:

- NFPA 1051: Standard for Wildland Firefighting Personnel Professional Qualifications (2020)

State Fire Training coordinated the development of this CTS guide. Before its publication, the Statewide Training and Education Advisory Committee (STEAC) and the State Board of Fire Services (SBFS) recommended this CTS guide for adoption by the Office of the State Fire Marshal (OSFM).

Cover photo courtesy of Craig Allyn Rose Photography.

Published by State Fire Training.
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**Acknowledgements**

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August 2020 Revision

Revised to align Wildland Fire Fighter 1 content with release of NFPA 1051 (2020).

- Allison L. Shaw, Editor, California State University, Sacramento
Overview

A certification training standard (CTS) guide lists the requisite knowledge, skills, and job performance requirements an individual must complete in order to become certified in a specific job function.

It also documents and justifies the OSFM-approved revisions to the certification’s NFPA standard, and identifies where each certification training standard is taught (course plan), tested (skill sheets), and validated (task book).

Individuals aspiring to meet State Fire Training’s certification training standards must do so in accordance with the codes, standards, regulations, policies, and standard operating procedures applicable within their own agency or jurisdiction.

Format

Each certification training standard is comprised of eight sections.

Section Heading
Training standards are grouped by section headings that describe a general category. For example, the Fire Fighter 1 CTS guide includes the following section headings: NFPA Requirements, Fire Department Communications, Fireground Operations, and Preparedness and Maintenance.

Training Standard Title
The training standard title provides a general description of the performance requirement contained within the individual standard.

Authority
The CTS guide references each individual standard with one or more paragraphs of the corresponding National Fire Protection Association (NFPA) Professional Qualifications. This ensures that each fire service function within California’s certification system meets or exceeds NFPA standards.

When California requirements exceed the NFPA standard, the CTS guide cites the Office of the State Fire Marshal as the authority and prints the corresponding information in italics.

Job Performance Requirements
This segment includes a written statement that describes a specific job-related task, the items an individual needs to complete the task, and measurable or observable outcomes.
How to Read a CTS Guide

Requisite Knowledge
This segment lists the knowledge that an individual must acquire in order to accomplish the job performance requirement.

Requisite Skills
This segment lists the skills that an individual must acquire in order to accomplish the job performance requirement.

Content Modification
This table documents and justifies any revisions to the NFPA standard that the development or validation cadres make during the development of a CTS guide.

Cross Reference
This table documents where each training standard is taught (course plan), tested (skill sheets), and validated (task book).
Section 1: Structure Fire Fighter Duties

1-1: Role of the Fire Fighter 1

Authority
- Paragraph 4.1.1, 4.1.2

Job Performance Requirement
There is no job performance requirement identified for this training standard.

Requisite Knowledge
1. Describe the organization of the fire department
2. Describe the role of the Fire Fighter 1 in the organization
3. Describe the mission of fire service
4. Describe the fire department’s standard operating procedures (SOPs) and rules and regulations as they apply to the Fire Fighter 1
5. Describe the value of fire and life safety initiatives in support of the fire department mission and to reduce fire fighter line-of-duty injuries and fatalities
6. Identify the role of other agencies as they relate to the fire department
7. Identify the signs and symptoms of behavioral and emotional distress
8. Identify aspects of the fire departments’ member assistance program
9. Describe the importance of physical fitness and a healthy lifestyle to the performance of the duties of a fire fighter
10. Define the critical aspects of NFPA 1500

Requisite Skills
1. Don personal protective clothing, doff personal protective clothing, perform field reduction of contaminants, and prepare for reuse
2. Hoist tools and equipment using ropes and the correct knot
3. Locate information in departmental documents and standards or code materials

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Revised December 2020
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| Fire Fighter 1A, Topic 1-3: Fire Fighter 1 Roles and Responsibilities  
  - RK 1, 2, 3, 4, 5, 6 and RS 3 | Cognitive only – no testable skills | Cognitive only – no testable skills |
| Fire Fighter 1A, Topic 2-2: Health and Safety Awareness  
  - RK 9, 10 | | |
| Fire Fighter 1A, Topic 2-3: Behavioral Health and Cancer Awareness  
  - RK 7, 8 | | |
| Fire Fighter 1A, Topic 2-4: Personal Protective Ensemble  
  - RS 1 | | |
| Fire Fighter 1A, Topic 4-1: Utilizing Ropes and Knots  
  - RS 2 | | |
1-2: Inspecting and Maintaining Personal Protective Equipment

Authority
1. Office of the State Fire Marshal

Job Performance Requirement
*Inspect and maintain structural personal protective equipment (PPE), given PPE, so that PPE is inspected, maintained, and returned to a ready state.*

Requisite Knowledge
1. Identify the components of structural PPE
2. Explain the importance of standards for structural PPE
3. Describe how improper usage or maintenance can compromise PPE effectiveness
4. Describe proper method for inspecting, cleaning, and maintaining structural PPE
5. Identify when to remove PPE from service
6. Describe how to remove PPE from service

Requisite Skills
1. Inspect structural PPE
2. Clean structural PPE
3. Maintain structural PPE

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<td>Added a certification training standard.</td>
<td>NFPA 1001 does not include a designated JPR for inspecting and maintaining PPE but it is a Cal/OSHA requirement: 8 CCR § 3401(b)(4).</td>
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<td>1-7: Doff, Inspect, and Prepare Structural PPE for Reuse</td>
<td>(CTS 1-2)</td>
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</table>
1-3: Inspecting and Maintaining Self-Contained Breathing Apparatus

Authority
1. Office of the State Fire Marshal

Job Performance Requirement
Inspect and maintain self-contained breathing apparatus (SCBA), given SCBA, so that SCBA is inspected, maintained, and returned to a ready state.

Requisite Knowledge
1. Identify the components of SCBA
2. Explain the importance of standards for SCBA
3. Describe how improper fit, usage, or maintenance can compromise SCBA effectiveness
4. Identify the proper method for inspecting, cleaning, and maintaining SCBA
5. Identify when to remove SCBA from service
6. Describe how to remove SCBA from service

Requisite Skills
1. Inspect SCBA
2. Clean SCBA
3. Maintain SCBA

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<td>1-3: Inspect SCBA</td>
<td>(CTS 1-3)</td>
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1-4: Donning Structural Personal Protective Equipment

Authority
1. Office of the State Fire Marshal

Job Performance Requirement
Don structural personal protective equipment (PPE), given PPE, so the PPE is donned in 60 seconds or less and all elements of the PPE ensemble are worn in accordance with manufacturer guidelines.

Requisite Knowledge
1. Describe the protection provided by structural PPE
2. Describe the limitations of structural PPE
3. Identify manufacturer guidelines for correct PPE use

Requisite Skills
1. Don PPE

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<td>1-4: Don Structural PPE</td>
<td>(CTS 1-4)</td>
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</table>
1-5: Donning Self-Contained Breathing Apparatus

Authority
1. Office of the State Fire Marshal

Job Performance Requirement
Don self-contained breathing apparatus (SCBA), given SCBA, so that the SCBA is donned in 60 seconds or less and all elements of the SCBA are worn and operated in accordance with manufacturer guidelines.

Requisite Knowledge
1. Identify conditions that require respiratory protection
2. Describe the protection provided by SCBA
3. Describe the uses and limitations of SCBA
4. Describe potential long-term consequences of exposure to products of combustion
5. Identify manufacturer guidelines for correct SCBA use
6. Describe operational inspection procedures for SCBA

Requisite Skills
1. Don SCBA
2. Perform operational inspection of SCBA

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<td>1-5: Don SCBA</td>
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1-6: Doffing Self-Contained Breathing Apparatus

Authority
1. Office of the State Fire Marshal

Job Performance Requirement
Doff self-contained breathing apparatus (SCBA), given SCBA, so that SCBA is removed in accordance with manufacturer guidelines and returned to a ready state.

Requisite Knowledge
1. Identify when it is safe to doff respiratory protection
2. Identify manufacturer guidelines for doffing SCBA
3. Identify AHJ policies and procedures for doffing SCBA

Requisite Skills
1. Doff SCBA
2. Return SCBA to a ready state

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<td>1-6: Doff SCBA</td>
<td>(CTS 1-6)</td>
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1-7: Doffing Personal Protective Equipment

Authority
1. Office of the State Fire Marshal

Job Performance Requirement
Doff structural personal protective equipment (PPE), given PPE, so that PPE is removed in accordance with manufacturer guidelines and returned to a ready state.

Requisite Knowledge
1. Identify when it is safe to doff PPE
2. Identify manufacturer guidelines for doffing PPE
3. Identify AHJ policies and procedures for doffing PPE

Requisite Skills
1. Doff PPE
2. Return PPE to a ready state

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1-8: Doffing Self-Contained Breathing Apparatus and Personal Protective Equipment for Gross Decontamination

Authority
1. Office of the State Fire Marshal

Job Performance Requirement
Doff self-contained breathing apparatus (SCBA) and structural personal protective equipment (PPE), given SCBA and PPE, so that SCBA and PPE are removed to reduce contaminant exposure; SCBA and PPE undergo gross decontamination and are tagged and transported; and fire fighter conducts physical decontamination as soon as possible, in order to reduce exposure to field contaminants.

Requisite Knowledge
1. Identify the purpose and benefits of gross decontamination
2. Identify parts of the body most susceptible to contaminant exposure
3. Identify common routes of exposure
4. Describe how to conduct onsite gross decontamination
5. Describe how to doff SCBA and PPE to reduce exposure to field contaminants
6. Describe how to tag and transport contaminated SCBA and PPE
7. Identify personal decontamination processes

Requisite Skills
1. Don and doff SCBA and PPE

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<td>NFPA 1001 does not include a designated JPR for PPE gross decontamination. Added to incorporate IAFF Cancer Awareness and Prevention Initiative to increase awareness and promote cultural change.</td>
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<td>1-8: Doff SCBA and PPE for Gross Decontamination</td>
<td>(CTS 1-8)</td>
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1-9: Identifying Confined Spaces

Authority
1. Office of the State Fire Marshal

Job Performance Requirement
Identify a permit-required and non-permit-required confined space, given an incident and a confined space, so that hazards associated with confined spaces are identified, equipment is secured, and incident management operations and communications are followed, in accordance with state regulations and industry standards.

Requisite Knowledge
1. Identify regulations and standards applicable to confined space incidents
2. Describe the history and dangers of confined space incidents
3. Describe how to identify a confined space
4. Describe how to identify a permit-required confined space
5. Describe how to recognize hazards
6. Describe how to isolate hazards and minimize risks
7. Describe how to recognize the need for and manage support resources
8. Describe how to ensure that resource application fits the operational requirements
9. Describe how to recognize the need for technical rescue resources
10. Describe how to search areas immediately adjacent to the space
11. Describe how to establish victim communication
12. Describe how to determine a victim survivability profile
13. Describe how to evaluate a non-entry rescue
14. Describe how to perform a non-entry rescue
15. Describe the positions and components of a permit-required confined space entry
16. Describe Cal/OSHA confined space operational positions and responsibilities

Requisite Skills
1. None required

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<td>California state law (8 CCR § 5157-5158) not captured by NFPA 1001.</td>
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<td>Covered in CSRA training materials</td>
<td>(CTS 1-9)</td>
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</table>
The training for this standard can be met through the completion of State Fire Training’s Confined Space Rescue Awareness course.
1-10: Operating within the Incident Command System

Authority
1. Office of the State Fire Marshal

Job Performance Requirement
Operate within the Incident Command System (ICS), given an incident and an incident action plan, so that organizational elements are recognized, positions and responsibilities are identified, facility needs are met, and the incident is managed, in accordance with state and federal regulations.

Requisite Knowledge
1. Explain the principles and basic structure of the Incident Command System (ICS)
2. Describe the NIMS management characteristics that are the foundation of the ICS
3. Describe the ICS functional areas and the roles of the Incident Commander and Command Staff
4. Describe the General Staff roles within ICS
5. Identify how NIMS management characteristics apply to ICS for a variety of roles and discipline areas

Requisite Skills
1. None required

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<td>Covered in other training modules</td>
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The training for this standard can be met through the completion of FEMA’s IS-100: Introduction to the Incident Command System and IS-700: An Introduction to the National Incident Management System.
1-11: Fire Fighter Physical Health and Safety

**Authority**
1. Office of the State Fire Marshal

**Job Performance Requirement**
*Identify common fire fighter health and safety issues, given an assignment, in order to avoid or mitigate common accidents and injuries, maintain a healthy and physically fit lifestyle, and conduct life safety initiatives in the line of duty.*

**Requisite Knowledge**
1. List common types of accidents and injuries and identify their causes
2. Describe how physical fitness and a healthy lifestyle correspond to fire fighter performance
3. Define critical aspects of NFPA 1500: Standard on Fire Department Occupational Safety and Health Program (current edition)
4. Describe how fire and life safety initiatives support a fire department’s mission to reduce fire fighter line-of-duty injuries and deaths

**Requisite Skills**
1. None required

**Content Modification**

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<tr>
<td>CTS</td>
<td>Added a certification training standard.</td>
<td>Application of this behavior reduces fire fighter injury, illness, and fatalities.</td>
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**Cross Reference**

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<tr>
<td>Fire Fighter 1A, Topic 2-2: Health and Safety Awareness</td>
<td>Cognitive only – no testable skills</td>
<td>(CTS 1-11)</td>
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</tbody>
</table>
1-12: Behavioral Health

Authority
1. Office of the State Fire Marshal

Job Performance Requirement
Describe common sources and impacts of stress and demonstrate practices that contribute to resilience, given an assignment in the fire service, in accordance with current research and best practices.

Requisite Knowledge
Define types of stress
Describe signs and symptoms of stress
Describe reactions to stress
Identify common stressors found in various situations and environments
Describe physiological and emotional impacts of stress
Describe behaviors associated with unmanaged stress
Describe the role of nutrition, sleep, exercise, relaxation techniques, and rest in mediating and mitigating stress
Describe healthy and unhealthy coping mechanisms
Identify potential consequences of unhealthy coping mechanisms
Describe the role of communication in coping with stress
Describe behavioral health resources available through an AHJ
Describe behavioral health resources available outside of the fire service

Requisite Skills
Demonstrate the self-assessment process
Demonstrate relaxation techniques

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<tr>
<td>CTS</td>
<td>Added a certification training standard.</td>
<td>Added to address critical health and safety concerns facing the fire service not covered by NFPA standards.</td>
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<td>Cognitive only – no testable skills</td>
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</table>
1-13: Cancer Awareness

Authority
1. Office of the State Fire Marshal

Job Performance Requirement
Demonstrate best practices to minimize cancer exposure and risk, given an assignment in the fire service so that the types, prevalence of, and common causes of cancer in the fire service are described, exposure to carcinogenic chemicals is described, and cancer exposure and risk are mitigated in accordance with current research and best practices.

Requisite Knowledge
Describe cancer prevalence in the fire service
Define “carcinogenic agent”
Identify risk factors specific to the fire service
Identify risk or protective factors specific to lifestyle
Identify exposure sources
Identify common states of carcinogenic chemicals
Identify common categories of carcinogenic chemicals
Identify exposure routes
Identify common activities, objects, and locations associated with exposure
Identify modifiable and unmodifiable risk factors
Define “exclusion (hot) zones,” “contamination reduction (warm) zones,” and “support (cold) zones”
Identify best practices that minimize contaminant exposure and risk during fire suppression, overhaul, mop-up, and post-incident activities
Identify best practices for PPE that minimize contaminant exposure and risk
Identify best practices for equipment that minimize contaminant exposure and risk
Identify best practices that minimize contaminant exposure and risk at the station
Identify best practices that minimize contaminant exposure and risk at home

Requisite Skills
Demonstrate best practices that minimize contaminant exposure and risk during fire suppression, overhaul, mop-up, and post-incident activities
Demonstrate best practices for PPE that minimize contaminant exposure and risk
Demonstrate best practices for equipment that minimize contaminant exposure and risk
Demonstrate best practices that minimize contaminant exposure and risk at the station
Demonstrate best practices that minimize contaminant exposure and risk at home
Document all exposures, injuries, and illnesses within AHJ reporting system
## Content Modification

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<tr>
<td>Fire Fighter 1A, Topic 2-4: Cancer Awareness</td>
<td>Cognitive only – no testable skills</td>
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</table>
2-1: Initiating the Response to a Reported Emergency

Authority
   • Paragraph 4.2.1
2. Office of the State Fire Marshal

Job Performance Requirement
Initiate the response to a reported emergency, given the report of an emergency, fire department SOPs, and communications equipment, so that all necessary information is obtained, communications equipment is operated correctly, and the information is relayed promptly and accurately to the dispatch center.

Requisite Knowledge
1. Explain the procedures for reporting an emergency
2. Identify departmental SOPs for taking and receiving alarms, radio codes, or procedures
3. List information needs of dispatch center
4. Identify different types of fire department communications equipment

Requisite Skills
1. Operate fire department communications equipment
2. Relay information
3. Record information

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<tr>
<td>RK 4</td>
<td>Added knowledge component.</td>
<td>The JPR requires the candidate to have equipment and use it correctly, but doesn’t include any knowledge of it.</td>
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<td>2-1: Initiate a Response to an Emergency</td>
<td>(CTS 2-1)</td>
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</tbody>
</table>
2-2: Receiving a Telephone Call

Authority
   • Paragraph 4.2.2

Job Performance Requirement
Receive a telephone call, given a fire department phone, so that procedures for answering the phone are used and the caller’s information is relayed.

Requisite Knowledge
1. Describe fire department procedures for answering non-emergency telephone calls

Requisite Skills
1. Operate fire station telephone and intercom equipment

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<td>2-2: Receive a Telephone Call</td>
<td>(CTS 2-2)</td>
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</tbody>
</table>
2-3: Transmitting and Receiving Messages via Radio

Authority
   • Paragraph 4.2.3
2. Office of the State Fire Marshal

Job Performance Requirement
 transmit and receive messages via the fire department radio, given a fire department radio and standard operating procedures, so that the information is accurate, complete, clear, and relayed within the time established by the AHJ.

Requisite Knowledge
1. Describe departmental radio procedures and etiquette for routine radio traffic, emergency radio traffic, and emergency radio evacuation signals
2. Identify types and operations of fire department radios

Requisite Skills
1. Operate radio equipment
2. Identify the differences between routine and emergency radio traffic

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<td>JPR</td>
<td>Added “standard”.</td>
<td>Added for consistency with other instances within NFPA 1001.</td>
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<tr>
<td>RK 1</td>
<td>Added “radio” three times.</td>
<td>Added to clarify that this only covers the radio aspects of these items.</td>
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<tr>
<td>RK 2</td>
<td>Added knowledge component.</td>
<td>The JPR requires the candidate to have a radio and use it correctly, but doesn’t include any knowledge of types and use.</td>
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<tr>
<td>RS 2</td>
<td>Changed “discriminate” to “identify the differences”. Added “radio”.</td>
<td>SFT uses neutral language whenever possible without changing content or context. Added “radio” to clarify that this only covers the radio aspect of emergency traffic.</td>
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<td>2-3: Operate a Fire Department Radio</td>
<td>(CTS 2-3)</td>
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</table>
2-4: Activating an Emergency Call of Assistance

Authority
   - Paragraph 4.2.4

Job Performance Requirement
Activate an emergency call for assistance, given vision-obscured conditions, PPE, and department SOPs, so that the fire fighter can be located and rescued.

Requisite Knowledge
1. Describe different personnel accountability systems
2. Describe emergency communication procedures
3. Describe emergency evacuation methods

Requisite Skills
1. Initiate an emergency call for assistance in accordance with the AHJ’s procedures
2. Use other methods of emergency calls for assistance

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<td>Fire Fighter 1A, Topic 6-1: Structural Fire Fighter Survival</td>
<td>3-5: Activate an Emergency Call and Exit a Hazardous Area</td>
<td>(CTS 2-4)</td>
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</table>
Section 3: Fire Ground Operations

3-1: Using Self-contained Breathing Apparatus During Emergency Operations

Authority
   - Paragraph 4.3.1
2. Office of the State Fire Marshal

Job Performance Requirement
Use self-contained breathing apparatus (SCBA) during emergency operations, given SCBA and other PPE, so that the SCBA is correctly donned, the SCBA is correctly worn, controlled breathing techniques are used, emergency procedures are enacted if the SCBA fails, all low-air warnings are recognized, respiratory protection is not intentionally compromised, and hazardous areas are exited prior to air depletion.

Requisite Knowledge
Identify conditions that require respiratory protection
Describe the uses and limitations of SCBA
Identify the components of SCBA
Describe different donning procedures
Describe different breathing techniques
Describe how to monitor and manage air consumption
Describe indications for and emergency procedures used with SCBA
Identify physical requirements of the SCBA wearer

Requisite Skills
1. Demonstrate different controlled breathing techniques
2. Replace SCBA air cylinders
3. Use SCBA to exit through restricted passages
4. Monitor and manage air consumption
5. Initiate and complete emergency procedures in the event of SCBA failure or air depletion
6. Complete donning procedures

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<td>RK 6</td>
<td>Added knowledge component.</td>
<td>Added to comply with NFPA 1404.</td>
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<td>RS 4</td>
<td>Added skills component.</td>
<td>Added to comply with NFPA 1404.</td>
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| Fire Fighter 1A, Topic 2-5: Self-Contained Breathing Apparatus  
  - RK 1, 2, 3, 4 and RS 6 | 3-1a: Replace an SCBA Air Cylinder  
  3-1b: Use SCBA During Emergency Operations | (CTS 3-1) |
| Fire Fighter 1A, Topic 2-6: Using SCBA During Emergency Operations  
  - RK 5, 6, 7, 8 and RS 1, 2, 3, 4, 5 | | |
3-2: Responding on an Apparatus to an Emergency Scene

Authority
• Paragraph 4.3.2

Job Performance Requirement
Respond on apparatus to an emergency scene, given an apparatus, personal protective clothing and other necessary PPE, so that the apparatus is correctly mounted and dismounted, seat belts are used while the vehicle is in motion, and other personal protective equipment is correctly used.

Requisite Knowledge
Describe mounting and dismounting procedures for riding fire apparatus
Identify hazards and ways to avoid hazards associated with riding apparatus
Describe prohibited practices
Identify different types of department PPE and their means for usage

Requisite Skills
Use each piece of provided safety equipment

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<tr>
<td>JPR</td>
<td>Added “an apparatus”.</td>
<td>Not included in the given but required to complete the task.</td>
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<td>Fire Fighter 1A, Topic 2-8: Responding on an Apparatus to an Emergency Scene</td>
<td>3-2: Respond to an Emergency Scene on an Apparatus</td>
<td>(CTS 3-2)</td>
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</table>
3-3: Establishing and Operating in Work Areas at Emergency Scenes

Authority
- Paragraph 4.3.3

Job Performance Requirement
Establish and operate in work areas at emergency scenes, given an apparatus, personal protective equipment, traffic and scene control devices, structure fire and roadway emergency scenes, traffic hazards and downed electrical wires, photovoltaic power systems, battery storage systems, an assignment, and SOPs, so that procedures are followed, protective equipment is worn, protected work areas are established as directed using traffic and scene control devices, and the fire fighter performs assigned tasks only in established, protected work areas.

Requisite Knowledge
*Identify* potential hazards involved in operating on emergency scenes including vehicle traffic, utilities, and environmental conditions
*Describe* proper procedures for mounting and dismounting apparatus in traffic
*Describe* procedures for safe operation at emergency scenes
*Identify* the protective equipment available for members’ safety on emergency scenes and work zone designations

Requisite Skills
Use personal protective clothing
Deploy traffic and scene control devices
Dismount apparatus
Operate in the protected work areas as directed

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<tr>
<td>JPR</td>
<td>Added “an apparatus”</td>
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<tr>
<td>JPR</td>
<td>Added “personal”.</td>
<td>Added for consistency with other references to PPE.</td>
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<tr>
<td>RK 2</td>
<td>Added “mounting and”.</td>
<td>Added for consistency with other standards. Mounting is equally as important as dismounting.</td>
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<td>Fire Fighter 1A, Topic 2-9: Establishing and Operating in Work Areas at Emergency Scenes</td>
<td>3-3: Operate at an Emergency Scene</td>
<td>(CTS 3-3)</td>
</tr>
</tbody>
</table>
3-4: Forcing Entry into a Structure

Authority
   • Paragraph 4.3.4

Job Performance Requirement
Force entry into a structure, given PPE, tools, *a prop or structure with doors, walls, and windows*, and an assignment, so that the tools are used as designed, the barrier is removed, and the opening is in a safe condition and ready for entry.

Requisite Knowledge
*Describe* basic construction of typical doors, windows, and walls within the department’s community or service area
Describe types and uses of hand and power tools used for forcible entry
*Describe* the operation of doors, windows, and locks
*Identify* the dangers associated with forcing entry through doors, windows, and walls

Requisite Skills
Transport and operate hand and power tools
Force entry through doors, windows, and walls using assorted methods and tools

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<tr>
<td>JPR</td>
<td>Added “a prop or structure with doors, walls, and windows”</td>
<td>Required to complete the JPR but not included in the given.</td>
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<tr>
<td>RK 2</td>
<td>Added knowledge component.</td>
<td>Not included in NFPA 1001 but required to complete RS 1.</td>
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| Fire Fighter 1A, Topic 5-1: Building Construction
  • RK 1 | 3-4: Force Entry into a Structure | (CTS 3-4) |
| Fire Fighter 1A, Topic 5-10: Forcing Entry into a Structure
  • RK 1, 2, 3, 4 and RS 1, 2 | | |
3-5: Exiting a Hazardous Area

Authority
  • Paragraph 4.3.5

Job Performance Requirement
Exit a hazardous area as a team, given vision-obscured conditions and PPE, so that a safe haven is found before exhausting the air supply, others are not endangered, and the team integrity is maintained.

Requisite Knowledge
Describe personnel accountability systems
Describe communication procedures
Describe emergency evacuation methods
Define what constitutes a safe haven
Identify elements that create or indicate a hazard
Identify emergency procedures for loss of air supply

Requisite Skills
Operate as a team member in vision-obscured conditions
Locate and follow a guide line
Conserve air supply
Evaluate areas for hazards
Identify a safe haven

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<tr>
<td>JPR</td>
<td>Added “and PPE”.</td>
<td>Not included in NFPA 1001 but required for fire fighter survival.</td>
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<tr>
<td>RS 2</td>
<td>Changed “guideline” to “guide line”.</td>
<td>Changed to clarify meaning. NFPA 1001 used the wrong word.</td>
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<td>Fire Fighter 1A, Topic 6-1: Structural Fire Fighter Survival</td>
<td>3-5: Activate an Emergency Call and Exit a Hazardous Area</td>
<td>(CTS 3-5)</td>
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</tbody>
</table>
3-6: Setting Up, Mounting, Ascending, Dismounting, and Descending Ground Ladders

Authority
  • Paragraph 4.3.6
Office of the State Fire Marshal

Job Performance Requirement
Set up, mount, ascend, dismount, and descend ground ladders, given single and extension ladders, an assignment, PPE, and team members if needed, so that hazards are assessed, the ladder is stable, the angle is correct for climbing, extension ladders are extended to the necessary height with the fly locked, the top is placed against a reliable structural component, and the assignment is accomplished.

Requisite Knowledge
Identify the uses of ground ladders
Identify the types, parts, and construction features of a ground ladder
Identify types of lifts, carries, and raises
Describe how to secure ground ladders
Describe how to operate from ground ladders
Describe hazards associated with setting up ladders
Define what constitutes a stable foundation for ladder placement
Identify different angles for various tasks
Describe climbing techniques
Describe safety limits to the degree of angulation
Describe what constitutes a reliable structural component for top placement

Requisite Skills
Lift and carry ladders
Raise and move ladders
Extend ladders
Lock flies
Secure ground ladders
Determine that a wall and roof will support the ladder
Judge extension ladder height requirements
Place the ladder to avoid obvious hazards
Mount, ascend, dismount, and descend the ladder
Demonstrate proper climbing techniques
Operate from ground ladders
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<td>Not included in NFPA 1001 but required for fire fighter survival.</td>
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<tr>
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<td>Added knowledge component.</td>
<td>Not included in NFPA 1001 but needed for proper ladder use.</td>
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<td>RK 2</td>
<td>Added to a knowledge component</td>
<td>Not included in NFPA 1001 but needed for proper ladder use.</td>
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<td>RK 3</td>
<td>Added knowledge component.</td>
<td>Not included in NFPA 1001 but needed for proper ladder use.</td>
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<td>RK 4</td>
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<td>Not included in NFPA 1001 but needed for proper ladder use.</td>
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<td>RK 5</td>
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<td>Not included in NFPA 1001 but needed for proper ladder use.</td>
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<td>RS 1</td>
<td>Added “Lift and”</td>
<td>Changed to match RK 3.</td>
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<tr>
<td>RS 2</td>
<td>Added “and move”</td>
<td>Not included in NFPA 1001 but needed for proper ladder use.</td>
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<tr>
<td>RS 5</td>
<td>Added skills component.</td>
<td>Added to correspond with RK 4.</td>
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<td>RS 10</td>
<td>Added skills component.</td>
<td>This is a CalOSHA requirement.</td>
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<td>RS 11</td>
<td>Added skills component.</td>
<td>Added to correspond with RK 6.</td>
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| Fire Fighter 1A, Topic 5-8: Cleaning, Inspecting, and Maintaining Fire Service Ladders  
  - RK 1, 2 | 3-6: Lift, Carry, and Raise a Ground Ladder | (CTS 3-6) |
| Fire Fighter 1A, Topic 5-9: Ground Ladder Operations  
  - RK 3, 4, 5, 6, 7, 8, 9, 10, 11  
  - RS 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 | | |
3-7: Attacking a Passenger Vehicle Fire

Authority
- Paragraph 4.3.7
Office of the State Fire Marshal

Job Performance Requirement
Attack a passenger vehicle fire operating as a member of a team, given personal protective equipment (PPE), self-contained breathing apparatus (SCBA), an attack line (1½ inch or larger), hand tools, and a passenger vehicle or prop, so that hazards are avoided, leaking flammable liquids are identified and controlled, protection from flash fires is maintained, all vehicle compartments are overhauled, and the fire is extinguished.

Requisite Knowledge
*Describe* principles of fire streams as they relate to fighting automobile fires
*Identify* precautions to be followed when advancing hose lines toward an automobile
*List* observable results that a fire stream has been properly applied
*Identify* alternative fuels and the hazards associated with them
*Describe* dangerous conditions created during an automobile fire
*Describe* common types of accidents or injuries related to fighting automobile fires and how to avoid them
*Describe* how to access locked passenger, trunk, and engine compartments
*Identify* methods for overhauling an automobile

Requisite Skills
*Identify* automobile fuel types
*Assess* and control fuel leaks
*Open*, *close*, and adjust the flow and pattern on nozzles
*Apply* water for maximum effectiveness while maintaining flash fire protection
*Advance* 1½ in. (38 mm) or larger diameter attack lines
*Expose* hidden fires by opening all automobile compartments

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<td>CalOSHA requirement for IDLH environments.</td>
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<tr>
<td>JPR</td>
<td>Added “(1½ inch or larger)”.</td>
<td>Specified by RS 5.</td>
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<tr>
<td>JPR</td>
<td>Added “a passenger vehicle or prop”.</td>
<td>Not included in the given but required to complete the JPR.</td>
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<td>3-7: Attack a Passenger Vehicle Fire</td>
<td>(CTS 3-7)</td>
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</table>
3-8: Extinguishing Fires in Exterior Class A Materials

Authority
- Paragraph 4.3.8
Office of the State Fire Marshal

Job Performance Requirement
Extinguish fires in exterior Class A materials, given fires in stacked or piled materials, small unattached structures, or storage containers that can be fought from the exterior, attack lines, hand tools and master stream devices, PPE, and an assignment, so that exposures are protected, the spread of fire is stopped, collapse hazards are avoided, water application is effective, the fire is extinguished, and signs of the origin area(s) and arson are preserved.

Requisite Knowledge
Describe types of attack lines and water streams appropriate for attacking stacked, piled materials, and outdoor fires
Identify dangers — such as collapse — associated with stacked and piled materials
Describe various extinguishing agents and their effect on different material configurations
Identify tools and methods to use in breaking up various types of materials
Describe difficulties related to complete extinguishment of stacked and piled materials
Identify water application methods for exposure protection and fire extinguishment
Describe dangers such as exposure to toxic or hazardous materials associated with storage building and container fires
Identify obvious signs of origin and cause
List techniques for the preservation of fire cause evidence

Requisite Skills
Recognize inherent hazards related to the material’s configuration
Operate handlines or master streams
Break up material using hand tools and water streams
Operate hoselines and other water application devices
Evaluate and modify water application for maximum penetration
Search for and expose hidden fires
Assess patterns for origin determination
Evaluate for complete extinguishment

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</thead>
<tbody>
<tr>
<td>JPR</td>
<td>Added “PPE”.</td>
<td>Not included in NFPA 1001 but required for fire fighter survival.</td>
</tr>
<tr>
<td>JPR</td>
<td>Added “materials” and commas.</td>
<td>As originally written “stacked or piled” modified “unattached structure or storage container”. Revised to clarify meaning.</td>
</tr>
</tbody>
</table>
### Cross Reference

<table>
<thead>
<tr>
<th>Course Plan</th>
<th>Skill Sheet(s)</th>
<th>Task Book</th>
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<tbody>
<tr>
<td>Fire Fighter 1A, Topic 7-1: Extinguishing Fires in Exterior Class A Materials</td>
<td>3-8a: Operate a Portable Master Stream</td>
<td>(CTS 3-8)</td>
</tr>
<tr>
<td></td>
<td>3-8b: Extinguish an Exterior Fire</td>
<td></td>
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</tbody>
</table>
3-9: Conducting a Search and Rescue in a Structure

Authority
  - Paragraph 4.3.9
Office of the State Fire Marshal

Job Performance Requirement
Conduct a search and rescue in a structure operating as a member of a team, given an assignment, obscured vision conditions, personal protective equipment (PPE), self-contained breathing apparatus (SCBA), a flashlight, forcible entry tools, hose lines or guide lines, a thermal imaging device, and ladders when necessary, so that ladders are correctly placed when used, all assigned areas are searched, all victims are located and removed, team integrity is maintained, and team members’ safety — including respiratory protection — is not compromised.

Requisite Knowledge
Describe how to use forcible entry tools during rescue operations
Describe how to use thermal imaging devices and other search tools
Describe how to use ladder operations for rescue
Identify the psychological effects of operating in obscured conditions and ways to manage them
Describe methods to determine if an area is tenable
Describe primary and secondary search techniques
Identify team members’ roles and goals
Describe methods and indicators used to locate victims
Describe victim removal methods (including various carries)
Identify considerations related to respiratory protection

Requisite Skills
Use SCBA to exit through restricted passages
Set up and use different types of ladders for various types of rescue operations
Rescue a fire fighter with functioning respiratory protection
Rescue a fire fighter whose respiratory protection is not functioning
Rescue a person who has no respiratory protection
Assess areas to determine tenability
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<tbody>
<tr>
<td>JPR</td>
<td>Added “self-contained breathing apparatus (SCBA)”.</td>
<td>Required for RK 1 but not included in the given.</td>
</tr>
<tr>
<td>JPR</td>
<td>Added “or guide lines”.</td>
<td>This is an additional option for orientation.</td>
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<tr>
<td>JPR</td>
<td>Added “a thermal imaging device”.</td>
<td>This is a recognized industry standard not included in NFPA 1001.</td>
</tr>
<tr>
<td>RK 2</td>
<td>Added knowledge component.</td>
<td>This is a recognized industry standard not included in NFPA 1001.</td>
</tr>
<tr>
<td>RK 8</td>
<td>Revised without changing intent.</td>
<td>Revised for clarification.</td>
</tr>
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<tr>
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<tr>
<td>Fire Fighter 1A, Topic 5-11: Conducting a Search and Rescue Operation in a Structure</td>
<td>3-9a: Search for and Rescue a Victim with no Respiratory Protection 3-9b: Rescue a Fire Fighter 3-9c: Use a Ladder for Rescue</td>
<td>(CTS 3-9)</td>
</tr>
</tbody>
</table>
3-10: Attacking an Interior Structure Fire

Authority
- Paragraph 4.3.10
Office of the State Fire Marshal

Job Performance Requirement
Attack an interior structure fire operating as a member of a team, given an attack line (1½ inch or larger), pumping apparatus, established water supply, ladders when needed, personal protective equipment, self-contained breathing apparatus (SCBA), tools, and an assignment, so that team integrity is maintained, the attack line is deployed for advancement, ladders are correctly placed when used, access is gained into the fire area, effective water application practices are used, the fire is approached correctly, attack techniques facilitate suppression given the level of the fire, hidden fires are located and controlled, the correct body posture is maintained, hazards are recognized and managed, and the fire is brought under control.

Requisite Knowledge
Identify types, designs, and uses of fire hoses
Identify fittings, tools, and appliances
Describe common building materials and construction types
Identify the principles of fire streams
Describe types, design, operation, nozzle pressure effects, and flow capabilities of nozzles
Identify precautions to be followed when advancing hoselines to a fire
Describe observable results that a fire stream has been properly applied
Identify dangerous building conditions created by fire
Identify principles of exposure protection
Describe potential long-term consequences of exposure to products of combustion
List physical states of matter in which fuels are found
List common types of accidents or injuries and their causes
Describe how to apply each size and type of attack line
Define the role of the backup team in fire attack situations
Describe attack and control techniques for grade level and above and below grade level fires
Identify methods for locating and exposing hidden fires

Requisite Skills
Prevent water hammers when shutting down nozzles
Open, close, and adjust nozzle flow and patterns
Apply water using direct, indirect, and combination attacks
Advance charged and uncharged 1½ in. (38 mm) diameter or larger hose lines up ladders and up and down interior and exterior stairways
Extend hose lines
Replace burst hose sections
Operate charged hose lines of 1½ in. (38 mm) diameter or larger while secured to a ground ladder

Couple and uncouple various hose line connections

Carry hose

Attack fires at grade level and above and below grade levels

Locate and suppress interior wall and subfloor fires

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<tbody>
<tr>
<td>JPR</td>
<td>Added “(1½ inch or larger)”</td>
<td>Specified by RS 4, and RS 7.</td>
</tr>
<tr>
<td>JPR</td>
<td>Added “pumping apparatus, established water supply”</td>
<td>You cannot do live fire training evolutions without a water supply.</td>
</tr>
<tr>
<td>JPR</td>
<td>Added “self-contained breathing apparatus (SCBA)”</td>
<td>Required for IDLH environments.</td>
</tr>
<tr>
<td>RK 1</td>
<td>Added knowledge component.</td>
<td>Not included in NFPA 1001 but needed for proper hose use.</td>
</tr>
<tr>
<td>RK 2</td>
<td>Added knowledge component.</td>
<td>Not included in NFPA 1001 but needed for proper hose use.</td>
</tr>
<tr>
<td>RK 3</td>
<td>Added knowledge component.</td>
<td>Not included in NFPA 1001 but needed for proper hose selection and attack.</td>
</tr>
<tr>
<td>RK 16</td>
<td>Added “methods for locating”.</td>
<td>Not included in NFPA 1001 but this is a two-step process.</td>
</tr>
<tr>
<td>RS 8</td>
<td>Changed “handline” to “hose line”.</td>
<td>Not all hose lines are handlines.</td>
</tr>
</tbody>
</table>

### Cross Reference

**Course Plan**

- Fire Fighter 1A, Topic 2-5: Self-Contained Breathing Apparatus
  - RK 10
- Fire Fighter 1A, Topic 5-1: Building Construction
  - RK 3, 8
- Fire Fighter 1A, Topic 5-2: Fire Behavior
  - RK 11
- Fire Fighter 1A, Topic 5-5: Cleaning, Inspecting, and Returning Fire Hose to Service
  - RK 1, 2, 5, 13
- Fire Fighter 1A, Topic 5-6: Deploy and Connect Fire Hose
  - RK 4, 6, 7 and RS 1, 2, 5, 6, 8, 9
- Fire Fighter 1A, Topic 5-12: Attacking an Interior Structure Fire

**Skill Sheet(s)**

- 3-10a: Operate a Charged Attack Hoseline from a Ground Ladder
- 3-10b: Attack a Live Interior Structure Fire
- 3-10c: Attack a Simulated Interior Structure Fire
- 3-10d: Extend a Hoseline
- 3-10e: Load, Deploy, and Advance an Attack Line
- 3-10f: Load Supply Hose

**Task Book**

(CTS 3-10)
The training for this standard can be met through the completion of State Fire Training’s Fire Control 3: Structural Fire Fighting (2018) course.
3-11: Performing Horizontal Ventilation on a Structure

Authority
• Paragraph 4.3.11

Job Performance Requirement
Perform horizontal ventilation on a structure operating as part of a team, given an assignment, PPE, ventilation tools, equipment, and ladders, so that the ventilation openings are free of obstructions, tools are used as designed, ladders are correctly placed, ventilation devices are correctly placed, and the structure is cleared of smoke.

Requisite Knowledge
Describe the principles, advantages, limitations, and effects of horizontal, mechanical, and hydraulic ventilation
Describe safety considerations when venting a structure
Describe fire behavior in a structure
List the products of combustion found in a structure fire
Identify the signs, causes, effects, and prevention of backdrafts
Describe the relationship of oxygen concentration to life safety and fire growth

Requisite Skills
Transport and operate ventilation tools and equipment and ladders
Use safe procedures for breaking window and door glass and removing obstructions

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</thead>
</table>
| Fire Fighter 1A, Topic 5-13: Horizontal Ventilation Operations  
  • RK 1, 2 and RS 1, 2, 3  
Fire Fighter 1A, Topic 5-2: Fire Behavior  
  • RK 3, 4, 5, 6 | 3-11: Perform Horizontal Ventilation | (CTS 3-11)       |
3-12: Performing Vertical Ventilation on a Structure

Authority
  • Paragraph 4.3.12
Office of the State Fire Marshal

Job Performance Requirement
Perform vertical ventilation on a structure as part of a team, given an assignment, PPE, ground and roof ladders, and tools, so that ladders are positioned for ventilation, a specified opening is created, all ventilation barriers are removed, structural integrity is not compromised, products of combustion are released from the structure, and the team retreats from the area when ventilation is accomplished.

Requisite Knowledge
Describe vertical (top-side) ventilation
Describe methods of heat transfer
Describe the principles of thermal layering within a structure on fire
List the techniques and safety precautions for venting flat roofs, pitched roofs, and basements
Describe basic indicators of potential collapse or roof failure
Identify the effects of construction type and elapsed time under fire conditions on structural integrity
Describe the advantages and disadvantages of vertical and trench/strip ventilation

Requisite Skills
Transport and operate ventilation tools and equipment
Hoist ventilation tools to a roof
Cut roofing and flooring materials to vent flat roofs, pitched roofs, and basements
Sound a roof for integrity
Clear an opening with hand tools
Select, carry, deploy, and secure ground ladders for ventilation activities
Deploy roof ladders on pitched roofs while secured to a ground ladder
Carry ventilation-related tools and equipment while ascending and descending ladders

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<tbody>
<tr>
<td>RK 1</td>
<td>Added knowledge component.</td>
<td>Needed a basic level introduction to the topic. Mirrors foundational information in the Horizontal Ventilation JPR.</td>
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### Cross Reference

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<tbody>
<tr>
<td>Fire Fighter 1A, Topic 5-1: Building Construction</td>
<td>3-12: Perform Vertical Ventilation</td>
<td>(CTS 3-12)</td>
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<tr>
<td>• RK 6</td>
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<tr>
<td>Fire Fighter 1A: Topic 5-2: Fire Behavior</td>
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<tr>
<td>• RK 2-3</td>
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<tr>
<td>Fire Fighter 1A, Topic 5-14: Vertical Ventilation Operations</td>
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<tr>
<td>• RK 1, 4-7 and RS 1-8</td>
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</tbody>
</table>
3-13: Overhauling a Fire Scene

Authority
  • Paragraph 4.3.13
Office of the State Fire Marshal

Job Performance Requirement
Overhaul a fire scene, given PPE, an attack line, hand tools, a flashlight, and an assignment, so that structural integrity is not compromised, all hidden fires are discovered, fire cause evidence is preserved, and the fire is extinguished.

Requisite Knowledge
Describe the purpose of and methods for overhaul
Describe types of fire attack lines and water application devices most effective for overhaul
Describe water application methods for extinguishment that limit water damage
Identify types of tools and methods used to expose hidden fire
Describe dangers associated with overhaul
Describe obvious signs of area of origin or signs of arson
Identify reasons for protection of fire scene

Requisite Skills
Deploy and operate an attack line for overhaul
Remove flooring, ceiling, and wall components to expose void spaces without compromising structural integrity
Apply water for maximum effectiveness
Expose and extinguish hidden fires in walls, ceilings, and subfloor spaces
Recognize and preserve obvious signs of area of origin and arson
Separate, remove, and relocate charred material to a safe location while protecting the area of origin for cause determination
Evaluate for complete extinguishment

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<tbody>
<tr>
<td>RK 1</td>
<td>Added a knowledge component.</td>
<td>Foundational knowledge not included in NFPA.</td>
</tr>
<tr>
<td>RS 1</td>
<td>Added “for overhaul”.</td>
<td>Adding “for overhaul” dictates hose line selection.</td>
</tr>
<tr>
<td>RS 6</td>
<td>Added skills component.</td>
<td>This is a skill from NFPA 1001 paragraph 4.3.14. It aligns more closely with the JPR for paragraph 4.3.13.</td>
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## Cross Reference

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<th>Task Book</th>
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</thead>
</table>
| Fire Fighter 1A, Topic 5-16: Overhauling a Fire Scene | 3-13a: Overhaul a Fire Scene  
3-13b: Remove Charred Materials | (CTS 3-13) |
3-14: Conserving Property

Authority
  • Paragraph 4.3.14
Office of the State Fire Marshal

Job Performance Requirement
Conserve property as a member of a team, given salvage tools and equipment, PPE, and an assignment, so that the building and its contents are protected from further damage.

Requisite Knowledge
Describe the purpose of property conservation and its value to the public
Describe methods used to protect property
List types of and uses for salvage covers
Describe operations at properties protected with automatic sprinklers
Describe how to stop the flow of water from an automatic sprinkler head
Identify the main control valve on an automatic sprinkler system
Describe forcible entry issues related to salvage
Describe procedures for protecting possible areas of origin and potential evidence

Requisite Skills
Cluster furniture
Deploy covering materials
Roll and fold salvage covers for reuse
Construct water chutes and catch-alls
Remove water
Cover building openings, including doors, windows, floor openings, and roof openings
Stop the flow of water from a sprinkler with sprinkler wedges or stoppers
Operate a main control valve on an automatic sprinkler system

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<tbody>
<tr>
<td>JPR</td>
<td>Added “PPE”.</td>
<td>Not included in NFPA 1001 but required for fire fighter safety.</td>
</tr>
<tr>
<td>RS</td>
<td>Removed “Separate, remove, and relocate charred material to a safe location while protecting the area of origin for cause determination”.</td>
<td>This skill aligns more closely with the JPR for NFPA 1001 paragraph 43.13. It was relocated to 3-13: Overhauling a Fire Scene.</td>
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## Cross Reference

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<tr>
<td>Fire Fighter 1A, Topic 5-15: Conserving Property</td>
<td>3-14a: Control Water Flow from a Sprinkler System</td>
<td>(CTS 3-14)</td>
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<tr>
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<td>3-14b: Remove Water from the Interior of a Structure</td>
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<tr>
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<td>3-14c: Salvage a Room and its Contents</td>
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<tr>
<td></td>
<td>3-15d: Cover Building Openings</td>
<td></td>
</tr>
</tbody>
</table>
3-15: Connecting a Fire Department Pumper to a Water Supply

Authority
  • Paragraph 4.3.15
Office of the State Fire Marshal

Job Performance Requirement
Connect a fire department pumper to a water supply as a member of a team, given supply or intake hose, hose tools, a fire hydrant or static water source, an apparatus, and PPE, so that connections are tight and water flow is unobstructed.

Requisite Knowledge
Describe types and components of municipal and rural water systems
Describe loading and off-loading procedures for mobile water supply apparatus
Describe fire hydrant operation
Identify suitable static water supply sources
Describe procedures and protocol for connecting to various water sources

Requisite Skills
Hand lay a supply hose
Connect and place hard suction hose for drafting operations
Deploy portable water tanks as well as the equipment necessary to transfer water between and draft from them
Make hydrant-to-pumper hose connections for forward and reverse lays
Connect supply hose to a hydrant
Fully open and close the hydrant

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<tbody>
<tr>
<td>JPR</td>
<td>Added “and PPE”.</td>
<td>Not included in NFPA 1001 but required for fire fighter safety.</td>
</tr>
<tr>
<td>JPR</td>
<td>Added “an apparatus”</td>
<td>Required to complete the JPR but not listed as a given.</td>
</tr>
<tr>
<td>RK 1</td>
<td>Added a knowledge component.</td>
<td>NFPA 1001 assumes that the candidate is using a pressurized hydrant but there are other types of water supply.</td>
</tr>
</tbody>
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<tbody>
<tr>
<td>Fire Fighter 1A, Topic 5-4: Water Supply Systems</td>
<td>3-15a: Deploy Portable Tank and Prepare for Drafting Operations</td>
<td>(CTS 3-15)</td>
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<tr>
<td></td>
<td>3-15b: Forward Hose Lay</td>
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<tr>
<td>Fire Fighter 1A, Topic 5-6: Deploy and Connect Fire Hose</td>
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<td>RK 1, 2, 3, 4, 5</td>
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<tr>
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<td>RS 1, 2, 3, 4, 5, 6</td>
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</tbody>
</table>
3-16: Extinguishing Incipient Class A, Class B, and Class C Fires

Authority
- Paragraph 4.3.16
Office of the State Fire Marshal

Job Performance Requirement
Extinguish incipient Class A, Class B, and Class C fires, given a selection of portable fire extinguishers and PPE, so that the correct extinguisher is chosen, the fire is completely extinguished, and correct extinguisher-handling techniques are followed.

Requisite Knowledge
*Describe* the classifications of fire
*Identify* the types of, rating systems for, and risks associated with each class of fire
*Describe* operating methods and limitations of portable extinguishers

Requisite Skills
Operate portable fire extinguishers
Approach fire with portable fire extinguishers
Select an appropriate extinguisher based on the size and type of fire
Safely carry portable fire extinguishers

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<tbody>
<tr>
<td>JPR</td>
<td>Added “and PPE”.</td>
<td>Not included in NFPA 1001 but required for fire fighter safety.</td>
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</table>

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</thead>
</table>
| Fire Fighter 1A, Topic 5-2: Fire Behavior  
  - RK 1 | 3-16: Select, Carry, and Operate a Portable Fire Extinguisher | (CTS 3-16) |
| Fire Fighter 1A, Topic 5-3: Extinguishing Fire with Fire Extinguishers  
  - RK 2, 3 and RS 1, 2, 3, 4 | | |

Revised December 2020
3-17: Operating Emergency Scene Lighting

Authority
• Paragraph 4.3.17
Office of the State Fire Marshal

Job Performance Requirement
Operate emergency scene lighting, given fire service lighting equipment, a power supply, and an assignment, so that emergency scene lighting equipment is operated within the manufacturer’s listed safety precautions.

Requisite Knowledge
Describe safety principles and practices for portable electrical equipment
*Identify* power supply capacity and limitations
*Describe* light deployment methods

Requisite Skills
Operate department power supply and lighting equipment
Deploy cords and connectors
Reset ground-fault interrupter (GFI) devices
Locate lights for best effect

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<tbody>
<tr>
<td>RK 1</td>
<td>Added “for portable electrical equipment”.</td>
<td>This was added to narrow the scope of discussion.</td>
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<tr>
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<tbody>
<tr>
<td>Fire Fighter 1A, Topic 4-3: Operating Emergency Scene Lighting</td>
<td>3-17: Light a Scene</td>
<td>(CTS 3-17)</td>
</tr>
</tbody>
</table>
3-18: Turning Off Building Utilities

Authority
  • Paragraph 4.3.18
Office of the State Fire Marshal

Job Performance Requirement
Turn off building utilities, given tools, PPE, and an assignment, so that the assignment is safely completed.

Requisite Knowledge
Describe properties, principles, and safety concerns for electrical, gas, and water systems
Identify utility disconnect methods and associated dangers
Describe how to use required safety equipment

Requisite Skills
Identify utility control devices
Operate control valves or switches
Assess for related hazards

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</thead>
<tbody>
<tr>
<td>JPR</td>
<td>Added “PPE”.</td>
<td>Not included in NFPA 1001 but required for fire fighter safety.</td>
</tr>
<tr>
<td>RK 1</td>
<td>Replaced “electricity” with “electrical”.</td>
<td>“Electrical” is the proper use of “electricity” as an adjective.</td>
</tr>
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</table>

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<tr>
<td>Fire Fighter 1A, Topic 5-7: Utility Control at Emergencies</td>
<td>3-18: Turn Off Building Utilities</td>
<td>(CTS 3-18)</td>
</tr>
</tbody>
</table>
3-19: Combatting a Ground Cover Fire

Authority
  • Paragraph 4.3.19
Office of the State Fire Marshal

Job Performance Requirement
Combat a ground cover fire operating as a member of a team, given personal protective equipment (PPE), SCBA (if needed), hose lines, extinguishers or hand tools, and an assignment, so that threats to property are reported, threats to personal safety are recognized, retreat is quickly accomplished when warranted, and the assignment is completed.

Requisite Knowledge
Describe types of ground cover fires
Describe parts of ground cover fires
Describe methods to contain or suppress
Describe safety principles and practices

Requisite Skills
Determine exposure threats based on fire spread potential
Protect exposures
Construct a fire line or extinguish with hand tools,
Maintain integrity of established fire lines
Suppress ground cover fires using water

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<tbody>
<tr>
<td>JPR</td>
<td>Replaced “protective clothing” with “personal protective equipment (PPE)”</td>
<td>Protective clothing isn’t comprehensive enough to meet JPR requirements.</td>
</tr>
</tbody>
</table>

Cross Reference

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<thead>
<tr>
<th>Course Plan</th>
<th>Skill Sheet(s)</th>
<th>Task Book</th>
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<tbody>
<tr>
<td>Fire Fighter 1A, Topic 7-3: Combatting a Ground Cover Fire</td>
<td>3-19: Combat a Ground Cover Fire</td>
<td>(CTS 3-19)</td>
</tr>
</tbody>
</table>
3-20: Tying Knots Appropriate for Hoisting Tools

Authority
   • Paragraph 4.3.20
Office of the State Fire Marshal

Job Performance Requirement
Tie a knot appropriate for hoisting tools, given PPE, tools, ropes, webbing, and an assignment, so that the knots used are appropriate for hoisting tools securely and as directed.

Requisite Knowledge
Identify rope types and usage
Identify knot types and usage
Describe the difference between life safety and utility rope
Identify reasons for placing rope out of service
Identify types of knots to use for given tools, ropes, or situations
Describe hoisting methods for tools and equipment
Describe how to use rope to support response activities

Requisite Skills
Tie knots specific to hoisting different types of tools
Hoist tools using specific knots based on the type of tool

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<tbody>
<tr>
<td>JPR</td>
<td>Added “webbing”.</td>
<td>Not included in NFPA 1001 but is commonly used for this task.</td>
</tr>
<tr>
<td>RK 1</td>
<td>Added knowledge component.</td>
<td>Not included in NFPA 1001 but it’s a basic knowledge component required to complete the JPR.</td>
</tr>
<tr>
<td>RS 1</td>
<td>Added skill component.</td>
<td>Not included in NFPA 1001 but required to complete the JPR.</td>
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Cross Reference
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<tr>
<td>Fire Fighter 1A, Topic 4-1: Utilizing Ropes and Knots</td>
<td>3-20a: Tie Knots 3-20b: Hoist Tools Aloft</td>
<td>(CTS 3-20)</td>
</tr>
</tbody>
</table>
3-21: Operating Hand and Power Tools

Authority
Office of the State Fire Marshal

Job Performance Requirement
Operate hand and power tools, given hand and power tools and an assignment, so that tools are properly operated, maintained, and transported in accordance with manufacturer specifications and AHJ policies and procedures.

Requisite Knowledge
Describe types of hand and power tools
Describe uses of hand and power tools

Requisite Skills
Transport hand and power tools
Operate hand and power tools
Maintain hand and power tools

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<tr>
<td>CTS</td>
<td>Added a certification training standard.</td>
<td>Many NFPA paragraphs require knowledge and skills regarding hand tools. Created one standard to cover foundational knowledge.</td>
</tr>
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<tbody>
<tr>
<td>Fire Fighter 1A, Topic 4-2: Utilizing Hand and Power Tools</td>
<td>3-21: Operate Hand and Power Tools</td>
<td>(CTS 3-21)</td>
</tr>
</tbody>
</table>
3-22: Operating an Air-Monitoring Instrument

Authority
- Paragraph 4.3.21

Job Performance Requirement
Operate an air-monitoring instrument, given an air monitor and an assignment or task, so that
the device is operated and the fire fighter recognizes the high- or low-level alarms of the air
monitor and takes action to mitigate the hazard.

Requisite Knowledge
Define the various uses for an air monitor
Describe basic operation of an air monitor
Describe air monitoring procedures
Identify how to recognize high- or low-level alarms of the air monitor
Describe emergency actions to be taken upon the activation of the high- or low-level alarms of
the air monitor

Requisite Skills
Operate the air monitor
Recognize the alarms
React to the alarms of the air monitor

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</table>
| RK 1  | Removed “knowledge of”               | This content is already in the knowledge section; we
  |                                      | don’t need knowledge of knowledge.               |
| RK 3  | Split one knowledge component into two. | Clarifying a poorly written knowledge component. |
| RK 4  | Split one knowledge component into two. | Clarifying a poorly written knowledge component. |
| RS 3  | Added a knowledge component.          | NFPA does not cover the step-by-step process.    |

Cross Reference

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<tr>
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<th>Skill Sheet(s)</th>
<th>Task Book</th>
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</thead>
</table>
Section 4: Preparedness and Maintenance

4-1: Cleaning and Checking Ladders, Ventilation Equipment, SCBA, Ropes, Salvage Equipment, and Hand Tools

Authority
- Paragraph 4.5.1
Office of the State Fire Marshal

Job Performance Requirement
Clean and check ladders, ventilation equipment, SCBA, ropes, salvage equipment, and hand tools, given cleaning tools, cleaning supplies, and an assignment, so that equipment is clean and maintained according to manufacturer’s or departmental guidelines, maintenance is recorded, and equipment is placed in a ready state or reported otherwise.

Requisite Knowledge
Describe types of cleaning methods for various tools and equipment
Describe the correct use of cleaning solvents
Identify manufacturer or departmental guidelines for cleaning equipment and tools
Identify manufacturer or departmental guidelines for removing tools and equipment from service

Requisite Skills
Select correct tools to maintain various parts and pieces of equipment
Follow guidelines
Complete recording and reporting procedures

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<tbody>
<tr>
<td>RK 4</td>
<td>Added knowledge component.</td>
<td>Added to support the JPR.</td>
</tr>
<tr>
<td>RS 1</td>
<td>Added “to maintain”.</td>
<td>Added to clarify the purpose for tool selection.</td>
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<tr>
<th>Course Plan</th>
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</table>
| Fire Fighter 1A, Topic 2-5: Self-Contained Breathing Apparatus  
  - RK 1, 2, 3, 4 and RS 1, 2, 3 (as it pertains to SCBA)  
| Fire Fighter 1A, Topic 4-1: Utilizing Ropes and Knots  
  - RK 1, 2, 3, 4 and RS 1, 2, 3 (as it pertains to rope)  
| Fire Fighter 1A, Topic 4-2: Utilizing Hand and Power Tools  
  - RK 1, 2, 3, 4 and RS 1, 2, 3 (as it pertains to tools)  
| Fire Fighter 1A, Topic 5-9: Cleaning, Inspecting, and Maintaining Fire Service Ladders  
  - RK 1, 2, 3, 4 and RS 1, 2, 3 (as it pertains to ladders)  
| Fire Fighter 1A, Topic 5-15: Horizontal Ventilation Operations  
  - RK 1, 2, 3, 4 and RS 1, 2, 3 (as it pertains to horizontal ventilation equipment)  
| Fire Fighter 1A, Topic 5-16: Vertical Ventilation Operations  
  - RK 1, 2, 3, 4 and RS 1, 2, 3 (as it pertains to vertical ventilation equipment)  
| Fire Fighter 1A, Topic 5-17: Conserving Property  
  - RK 1, 2, 3, 4 and RS 1, 2, 3 (as it pertains to salvage equipment)  
|                                         | 4-1: Clean and Check Equipment | (CTS 4-1)  |
4-2: Cleaning, Inspecting, and Returning Fire Hose to Service

Authority
  • Paragraph 5.4.2
Office of the State Fire Marshal

Job Performance Requirement
Clean, inspect, and return fire hose to service, given washing equipment, water, detergent, tools, and replacement gaskets, so that damage is noted and corrected, the hose is clean, and the equipment is placed in a ready state for service.

Requisite Knowledge
*Describe* departmental procedures for *inspecting a hose according to manufacturer guidelines*, noting a defective hose, and removing it from service
*Describe* cleaning and maintenance methods
*Describe* types of hose rolls and loads

Requisite Skills
Clean different types of hose
Operate hose washing and drying equipment
Mark defective hose
Replace coupling gaskets
Roll hose
Reload hose

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<tbody>
<tr>
<td>RK 1</td>
<td>Added “inspecting a hose according to manufacturer guidelines”.</td>
<td>This strengthens the knowledge component with a standard.</td>
</tr>
<tr>
<td>RK 2</td>
<td>Added “and maintenance”.</td>
<td>There are steps beyond cleaning required before returning hose to a ready state.</td>
</tr>
<tr>
<td>RK 3</td>
<td>Added “types of”.</td>
<td>Added for clarification.</td>
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<th>Skill Sheet(s)</th>
<th>Task Book</th>
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</table>
| Fire Fighter 1A, Topic 5-5: Cleaning, Inspecting, and Returning Fire Hose to Service  
  • RK 1, 2, 3 and RS 1, 2, 3, 4 | 4-2a: Replace a Burst Section of Hose 4-2b: Build Hose Rolls 4-2c: Clean and Maintain Hose and Mark Defective Hose | (CTS 4-2) |
| Fire Fighter 1A, Topic 5-6: Deploy and Connect Fire Hose  
  • RS 5, 6 | | |
5-1: Description of Duties (Awareness)

Authority


• Paragraph 4.1.3

Job Performance Requirement

There is no job performance requirement identified for this training standard.

Requisite Knowledge

Identify the role of awareness personnel at a hazardous materials/WMD incident
Identify the location and contents of the AHJ emergency response plan
Describe standard operating procedures for awareness personnel

Requisite Skills

None specified

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<tbody>
<tr>
<td>Fire Fighter 1B, Topic 2-1: Description of Duties (Awareness)</td>
<td>Cognitive only – no testable skills</td>
<td>Cognitive only – no testable skills</td>
</tr>
</tbody>
</table>
5-2: Recognizing and Identifying Hazardous Materials/WMD and Associated Hazards

Authority
• Paragraph 4.2.1

Job Performance Requirement
Recognize and identify the hazardous materials/WMD and hazards involved in a hazardous materials/WMD incident, given a hazardous materials/WMD incident and approved reference sources, so that the presence of hazardous materials/WMD is recognized and the materials and their hazards are identified.

Requisite Knowledge
Describe how to recognize hazardous materials and WMD
List basic hazards associated with classes and divisions
Identify indicators to the presence of hazardous materials including container shapes, NFPA 704 markings, globally harmonized system (GHS) markings, placards, labels, pipeline markings, other transportation markings, shipping papers with emergency response information, and other indicators
Describe how to access information from the Emergency Response Guidebook (ERG) (current edition) using name of the material, UN/NA identification number, placard applied, or container identification charts
List types of hazard information available from the ERG, safety data sheets (SDS), shipping papers with emergency response information, and other approved reference sources

Requisite Skills
Recognize indicators to the presence of hazardous materials/WMD
Identify hazardous materials/WMD by name, UN/NA identification number, placard applied, or container identification charts
Use the ERG, SDS, shipping papers with emergency response information, and other approved reference sources to identify hazardous materials/WMD and their potential fire, explosion, and health hazards

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Revised December 2020
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<tr>
<th>Course Plan</th>
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</thead>
</table>
5-3: Isolating the Hazard Area and Denying Entry

Authority
- Paragraph 4.3.1
Office of the State Fire Marshal

Job Performance Requirement
Isolate the hazard area and deny entry at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, policies and procedures, and approved reference sources, so that the hazard area is isolated and secured, personal safety procedures are followed, hazards are avoided or minimized, and additional people are not exposed to further harm.

Requisite Knowledge
Describe how to use the ERG, SDS, shipping papers with emergency response information, and other approved reference sources to identify precautions to be taken to protect responders and the public
Describe policies and procedures for isolating the hazard area and denying entry
Identify the purpose of and methods for isolating the hazard area and denying entry

Requisite Skills
Recognize precautions for protecting responders and the public
Identifying isolation areas
Denying entry
Avoiding or minimizing hazards

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<tr>
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<tbody>
<tr>
<td>RS 4</td>
<td>Added “or”.</td>
<td>Accidental NFPA omission. Without it, RS 4 contradicts the JPR requirement.</td>
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<tr>
<td>Fire Fighter 1B, Topic 2-3: Isolating the Hazard Area and Denying Entry</td>
<td>5-2a: Recognize, Identify, and Isolate Hazardous Materials/WMD</td>
<td>(CTS 5-3)</td>
</tr>
</tbody>
</table>
5-4: Initiating Required Notifications

Authority
• Paragraph 4.4.1

Job Performance Requirement
Initiate required notifications at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, policies and procedures, and approved communications equipment, so that the notification process is initiated and the necessary information is communicated.

Requisite Knowledge
Identify policies and procedures for notification, reporting, and communications
List types of approved communications equipment
Describe how to operate equipment

Requisite Skills
Operate approved communications equipment
Communicate in accordance with policies and procedures

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<tr>
<td>Fire Fighter 1B, Topic 2-4: Initiating Required Notifications</td>
<td>5-4: Initiate Required Notifications</td>
<td>(CTS 5-4)</td>
</tr>
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</table>
Section 6: Operations

6-1: Description of Duties (Operations)

Authority
  • Paragraph 5.1.5

Job Performance Requirement
There is no job performance requirement identified for this training standard.

Requisite Knowledge
Identify the role of operations level responders at a hazardous materials/WMD incident
Identify the location and contents of AHJ emergency response plan and standard operating procedures for operations level responders, including those response operations for hazardous materials/WMD incidents

Requisite Skills
None specified

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<tbody>
<tr>
<td>Fire Fighter 1B, Topic 3-1: Description of Duties (Operations)</td>
<td>Cognitive only – no testable skills</td>
<td>Cognitive only – no testable skills</td>
</tr>
</tbody>
</table>
6-2: Identifying the Scope of a Hazardous Materials/WMD Incident

Authority
• Paragraph 5.2.1

Job Performance Requirement
Identify the scope of the problem at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment, policies and procedures, and approved reference sources, so that container types, materials, location of any release, and surrounding conditions are identified, hazard information is collected, the potential behavior of a material and its container is identified, and the potential hazards, harm, and outcomes associated with that behavior are identified.

Requisite Knowledge
Define hazard classes and divisions
Identify types of containers
Identify container identification markings, including piping and pipeline markings and contacting information
Identify types of information to be collected during the hazardous materials/WMD incident survey
Identify the availability and location of shipping papers in transportation and of safety data sheets (SDS) at facilities
Describe types of hazard information available from and how to contact CHEMTREC, CANUTEC, and SETIQ, governmental authorities, and manufacturers, shippers, and carriers
Describe how to communicate with carrier representatives to reduce impact of a release
Identify basic physical and chemical properties, including boiling point, chemical reactivity, corrosivity (pH), flammable (explosive) range [LFL (LEL) and UFL (UEL)], flash point, ignition (autoignition) temperature, particle size, persistence, physical state (solid, liquid, gas), radiation (ionizing and nonionizing), specific gravity, toxic products of combustion, vapor density, vapor pressure, and water solubility
Identify the behavior of a material and its container based on the material’s physical and chemical properties and the hazards associated with the identified behavior
List examples of potential criminal and terrorist targets
Identify indicators of possible criminal or terrorist activity for each of the following: chemical agents, biological agents, radiological agents, illicit laboratories (i.e., clandestine laboratories, weapons labs, ricin labs), and explosives
Describe additional hazards associated with terrorist or criminal activities, such as secondary devices
Determine the likely harm and outcomes associated with the identified behavior and the surrounding conditions
Requisite Skills
Identify container types, materials, location of release, and surrounding conditions at a hazardous materials/WMD incident
Collect hazard information
Communicate with pipeline operators or carrier representatives
Describe the likely behavior of the hazardous materials or WMD and its container
Describe the potential hazards, harm, and outcomes associated with that behavior and the surrounding conditions

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<tbody>
<tr>
<td>RK 5</td>
<td>Added “and location”.</td>
<td>The documents should always be available; the real knowledge is in knowing where they are located.</td>
</tr>
<tr>
<td>RS 2</td>
<td>Removed “ing”.</td>
<td>Removed to for consistency with verb tenses of other NFPA standards.</td>
</tr>
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<tr>
<td>Fire Fighter 1B, Topic 3-2: Identifying the Scope of a Hazardous Materials/WMD Incident</td>
<td>6-2: Identify the Scope of a Hazardous Materials/WMD Incident</td>
<td>(CTS 6-2)</td>
</tr>
</tbody>
</table>
6-3: Identifying Action Options for a Hazardous Materials/WMD Incident

Authority
• Paragraph 5.3.1

Job Performance Requirement
Identify the action options for a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment, policies and procedures, approved reference sources, and the scope of the problem, so that response objectives, action options, safety precautions, suitability of approved personal protective equipment (PPE) available, and emergency decontamination needs are identified.

Requisite Knowledge
*Identify* policies and procedures for hazardous materials/WMD incident operations
*List the* basic components of an incident action plan (IAP)
*Describe* modes of operation (offensive, defensive, and nonintervention)
*Describe* types of response objectives
*Describe* types of action options
*Identify* types of response information available from the Emergency Response Guidebook (ERG), safety data sheets (SDS), shipping papers with emergency response information, and other resources
*Identify* types of information available from and how to contact CHEMTREC, CANUTEC, and SETIQ, governmental authorities, and manufacturers, shippers, and carriers (highway, rail, water, air, pipeline)
*Describe* safety procedures
*Describe* risk analysis concepts
*Identify the* purpose, advantages, limitations, and uses of approved PPE to determine if PPE is suitable for the incident conditions
*Explain the* difference between exposure and contamination
*Identify contamination types, including sources and hazards of carcinogens at incident scenes*
*List routes of exposure*
*Describe* types of decontamination (emergency, mass, and technical)
*Describe the* purpose, advantages, and limitations of emergency decontamination
*Describe* procedures, tools, and equipment for performing emergency decontamination

Requisite Skills
Identify response objectives and action options based on the scope of the problem and available resources
Identify whether approved PPE is suitable for the incident conditions
Identify emergency decontamination needs based on the scope of the problem
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</table>
| Fire Fighter 1B, Topic 3-2: Identifying the Scope of a Hazardous Materials/WMD Incident  
   - RK 7 | 6-3: Identify Action Options for a Hazardous Materials/WMD Incident | (CTS 6-3) |
| Fire Fighter 1B, Topic 3-4: Performing Emergency Decontamination at a Hazardous Materials/WMD Incident  
   - RK 14, 15, 16 | | |
| Fire Fighter 1B, Topic 3-5: Identifying Action Options for a Hazardous Materials/WMD Incident  
   - RK 1, 2, 3, 4, 5, 6, 8, 9, 10, 11, 12 and RS 1, 2, 3 | | |
6-4: Performing Assigned Tasks at a Hazardous Materials/WMD Incident

Authority
- Paragraph 5.4.1
Office of the State Fire Marshal

Job Performance Requirement
Perform assigned tasks at a hazardous materials/WMD incident, given a hazardous materials/WMD incident; an assignment with limited potential of contact with hazardous materials/WMD, policies and procedures, the scope of the problem, approved tools, equipment, and PPE, so that protective actions and scene control are established and maintained, on-scene incident command is described, evidence is preserved, approved PPE is selected and used in the proper manner; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; assignments are completed; and gross decontamination of personnel, tools, equipment, and PPE is conducted in the field.

Requisite Knowledge
Describe scene control procedures
Describe procedures for protective actions, including evacuation and sheltering-in-place
Describe procedures for ensuring coordinated communications between responders and to the public
List evidence recognition and preservation procedures
Identify hazardous materials/WMD incident command roles and responsibilities within the incident command system (ICS)
Identify the purpose, importance, benefits, and organization of incident command at hazardous materials/WMD incidents
Describe policies and procedures for implementing incident command at hazardous materials/WMD incidents
Describe the capabilities, limitations, inspection, donning, working in, going through decontamination while wearing, doffing approved PPE
Describe how to recognize signs and symptoms of thermal stress
Identify safety precautions when working at hazardous materials/WMD incidents
Describe purpose, advantages, and limitations of gross decontamination
Identify the need for gross decontamination in the field based on the task(s) performed and contamination received, including sources and hazards of carcinogens at incident scenes
Describe gross decontamination procedures for personnel, tools, equipment, and PPE
Describe how to clean, disinfect, and inspect tools, equipment, and PPE

Requisite Skills
Establish and maintain scene control
Recognize and preserve evidence
Inspect, don, work in, go through decontamination while wearing, and doff approved PPE
Isolate contaminated tools, equipment, and PPE
Conduct gross decontamination of contaminated personnel, tools, equipment, and PPE in the field
Clean, disinfect, and inspect approved tools, equipment, and PPE

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<tbody>
<tr>
<td>RK 5</td>
<td>Changed “Describe incident command organization” to “Identify hazardous materials/WMD incident command roles and responsibilities within the incident command system (ICS)”.</td>
<td>Expanded to identify that there are roles and responsibilities specific to HazMat/WMD within the ICS.</td>
</tr>
<tr>
<td>RK 14</td>
<td>Removed “ing” from “cleaning, disinfecting, and inspecting”.</td>
<td>Removed for consistency with other RK language.</td>
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**Cross Reference**

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<tbody>
<tr>
<td>Fire Fighter 1B, Topic 3-3: Selecting, Donning, Working In, and Doffing Approved PPE at a Hazardous Materials/WMD Incident</td>
<td>6-4: Perform Assigned Tasks at a Hazardous Materials/WMD Incident</td>
<td>(CTS 6-4)</td>
</tr>
<tr>
<td>Fire Fighter 1B, Topic 3-4: Performing Decontamination at a Hazardous Materials/WMD Incident</td>
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</tr>
<tr>
<td>Fire Fighter 1B, Topic 3-6: Performing Assigned Tasks at a Hazardous Materials/WMD Incident</td>
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</tbody>
</table>
6-5: Performing Emergency Decontamination at a Hazardous Materials/WMD Incident

Authority
   - Paragraph 5.5.1

Job Performance Requirement
Perform emergency decontamination at a hazardous materials/WMD incident, given a hazardous materials/WMD incident that requires emergency decontamination; an assignment; scope of the problem; policies and procedures; and approved tools, equipment, and PPE for emergency decontamination, so that emergency decontamination needs are identified, approved PPE is selected and used, exposures and personnel are protected, safety procedures are followed, hazards are avoided or minimized, emergency decontamination is set up and implemented, and victims and responders are decontaminated.

Requisite Knowledge
Define contamination, cross contamination, and exposure
Describe contamination types
List routes of exposure
Identify types of decontamination (emergency, mass, and technical)
Describe the purpose, advantages, and limitations of emergency decontamination
Describe policies and procedures for performing emergency decontamination
Identify approved tools and equipment for emergency decontamination
Describe hazard avoidance for emergency decontamination

Requisite Skills
Select an emergency decontamination method
Set up emergency decontamination in a safe area
Use PPE in the proper manner
Implement emergency decontamination
Prevent spread of contamination
Avoid hazards during emergency decontamination

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<tr>
<td>Fire Fighter 1B, Topic 3-4: Performing Emergency Decontamination at a Hazardous Materials/WMD Incident</td>
<td>6-5: Perform Emergency Decontamination</td>
<td>(CTS 6-5)</td>
</tr>
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</table>
6-6: Evaluating and Reporting Progress for a Hazardous Materials/WMD Incident

Authority
- Paragraph 5.6.1

Job Performance Requirement
Evaluate and report the progress of the assigned tasks for a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment, policies and procedures, status of assigned tasks, and approved communication tools and equipment, so that the effectiveness of the assigned tasks is evaluated and communicated to the supervisor, who can adjust the IAP as needed.

Requisite Knowledge
List components of progress reports  
Describe policies and procedures for evaluating and reporting progress  
Describe how to use approved communication tools and equipment  
Identify signs indicating improving, static, or deteriorating conditions based on the objectives of the action plan  
Describe how to recognize circumstances under which it would be prudent to withdraw from a hazardous materials/ WMD incident

Requisite Skills
Determine incident status  
Determining whether the response objectives are being accomplished  
Use approved communications tools and equipment  
Communicate the status of assigned tasks

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<td>6-8: Evaluate and Report Progress for a Hazardous Materials/WMD Incident</td>
<td>(CTS 6-6)</td>
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</table>
Section 7: Operations – Mission Specific

7-1: Selecting, Donning, Working In, and Doffing Approved PPE at a Hazardous Materials/WMD Incident

Authority
- Paragraph 6.2.1

Job Performance Requirement
Select, don, work in, and doff approved PPE at a hazardous materials/WMD incident, given a hazardous materials/WMD incident; a mission-specific assignment in an IAP that requires use of PPE; the scope of the problem; response objectives and options for the incident; access to a hazardous materials technician, an allied professional, an emergency response plan, or standard operating procedures; approved PPE; and policies and procedures, so that under the guidance of a hazardous materials technician, an allied professional, an emergency response plan, or standard operating procedures, approved PPE is selected, inspected, donned, worked in, decontaminated, and doffed; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; and all reports and documentation pertaining to PPE use are completed.

Requisite Knowledge
Describe policies and procedures for PPE selection and use
Describe the importance of working under the guidance of a hazardous materials technician, an allied professional, an emergency response plan, or standard operating procedures when selecting and using PPE
Identify the capabilities and limitations of and specialized donning, doffing, and usage procedures for approved PPE
List components of an incident action plan (IAP)
Describe procedures for decontamination, inspection, maintenance, and storage of approved PPE
Describe the process for being decontaminated while wearing PPE
Describe procedures for reporting and documenting the use of PPE

Requisite Skills
Select PPE for the assignment
Inspect, maintain, store, don, work in, and doff PPE
Go through decontamination (emergency and technical) while wearing the PPE
Report and document the use of PPE
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<td>o RK 1, 2, 3, 5, 6, 7 and RS 1, 2, 3, 4</td>
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<td>Fire Fighter 1B, Topic 3-5: Identifying Action Options for a Hazardous Materials/WMD Incident</td>
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<td>o RK 4</td>
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<td></td>
<td>7-1: Don, Work In, and Doff Chemical Protective Clothing</td>
<td>(CTS 7-1)</td>
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</table>
7-2: Performing Product Control Techniques at a Hazardous Materials/WMD Incident

Authority
• Paragraph 6.6.1
Office of the State Fire Marshal

Job Performance Requirement
Perform product control techniques with a limited risk of personal exposure at a hazardous materials/WMD incident, given a hazardous materials/WMD incident with release of product; an assignment in an IAP; scope of the problem; policies and procedures; approved tools, equipment, control agents, and PPE; and access to a hazardous materials technician, an allied professional, an emergency response plan, or standard operating procedures, so that under the guidance of a hazardous materials technician, an allied professional, an emergency response plan, or standard operating procedures, approved PPE is selected and used; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; a product control technique is selected and implemented; the product is controlled; victims, personnel, tools, and equipment are decontaminated; and product control operations are reported and documented.

Requisite Knowledge
Describe types of PPE and the hazards for which they are used
Describe the importance of working under the guidance of a hazardous materials technician, an allied professional, an emergency response plan, or standard operating procedures
Define control, confinement, containment, and extinguishment
Describe policies and procedures for product control
Identify product control methods for controlling a release with limited risk of personal exposure
Describe safety precautions associated with each product control method
Identify the location and describe how to operation of remote/emergency shutoff devices in cargo tanks and intermodal tanks in transportation and containers at facilities, that contain flammable liquids and flammable gases
List characteristics and applicability of approved product control agents
Describe how to use approved tools and equipment
Identify requirements for reporting and documenting product control operations

Requisite Skills
Select and use PPE
Select and perform product control techniques to confine/contain the release with limited risk of personal exposure
Use approved control agents and equipment on a release involving hazardous materials/WMD
Use remote control valves and emergency shutoff devices on cargo tanks and intermodal tanks in transportation and containers at fixed facilities
Perform product control techniques

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<tbody>
<tr>
<td>RK 4</td>
<td>Added “for product control”.</td>
<td>Added to narrow the scope of discussion of policies and procedures.</td>
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<td>7-2: Perform Product Control</td>
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<td>o RK 1</td>
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Wildland Fire Fighter 1

Section 8: Wildland Fire Fighter Duties

8-1: Role of the Wildland Fire Fighter

Authority
NFPA 1051: Standard for Wildland Firefighting Personnel Professional Qualifications (2020)
- Paragraph 4.1.1, 4.1.2
Office of the State Fire Marshal

Job Performance Requirement
There is no job performance requirement identified for this training standard.

Requisite Knowledge
Describe fireline safety and use and limitations of personal protective equipment
Describe the use, limitations, inspection, and care of a fire shelter
Describe AHJ on fire shelter use
Describe basic wildland fire behavior
Identify fire suppression techniques
Identify basic wildland fire tactics
Describe the fire fighter’s role within the AHJ incident management system
Describe AHJ required first aid
Describe how to use NFES 1077, Incident Response Pocket Guide (IRPG)

Requisite Skills
Use basic verbal communication
Use required personal protective equipment
Deploy a fire shelter

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<tr>
<td>RK 2</td>
<td>Added knowledge component.</td>
<td>Added to call attention to a unique element of PPE that isn’t physically worn.</td>
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<tr>
<td>RS 3</td>
<td>Added skills component.</td>
<td>Not covered by NFPA 1051 but critical for wildland fire fighter survival.</td>
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<td>• RS 1</td>
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<td>Fire Fighter 1C, Topic 2-4: Donning, Doffing, and Maintaining Wildland</td>
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<td>Personal Protective Equipment</td>
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<td>• RK 1 and RS 2</td>
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<td>• RK 4</td>
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8-2: Donning Wildland Personal Protective Equipment

Authority
Office of the State Fire Marshal

Job Performance Requirement
Don wildland personal protective equipment (PPE), given PPE, so the PPE is donned in 60 seconds or less and all elements of the PPE ensemble are worn in accordance with manufacturer guidelines.

Requisite Knowledge
Identify the components of wildland PPE
Explain the importance of standards for wildland PPE
Describe the protection provided by wildland PPE
Describe the limitations of wildland PPE
Identify manufacturer guidelines for correct PPE use

Requisite Skills
Don PPE

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<td>CTS</td>
<td>Added a certification training standard.</td>
<td>NFPA 1051 does not include a designated JPR for donning wildland PPE. OSFM uses 60 seconds as the industry standard.</td>
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<td>Fire Fighter 1C, Topic 2-4: Donning, Doffing, and Maintaining Wildland Personal Protective Equipment</td>
<td>8-2: Don Wildland Personal Protective Equipment</td>
<td>(CTS 8-2)</td>
</tr>
</tbody>
</table>
8-3: Deploying a Fire Shelter

Authority
Office of the State Fire Marshal

Job Performance Requirement
Deploy a fire shelter, given PPE, a hand tool, a live or simulated incident, and a fire shelter, so that the fire shelter is deployed within 30 seconds and used in accordance with manufacturer and AHJ procedures.

Requisite Knowledge
Describe the protection provided by and limitations of fire shelters
Describe how to inspect and evaluate a fire shelter
Describe how to select and prepare a shelter deployment site
Identify items to take into and leave outside a fire shelter
Describe methods for deploying a fire shelter
Identify when to deploy and exit a fire shelter during an incident

Requisite Skills
Deploy a fire shelter within 30 seconds

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<td>CTS</td>
<td>Added a certification training standard.</td>
<td>NFPA 1051 does not include a designated JPR for deploying a fire shelter. OSFM uses 30 seconds as the industry standard.</td>
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<td>8-3: Deploy a Fire Shelter</td>
<td>(CTS 8-3)</td>
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</tbody>
</table>
8-4: Doffing Wildland Personal Protective Equipment

Authority
Office of the State Fire Marshal

Job Performance Requirement
Doff wildland personal protective equipment (PPE), given PPE, so that PPE is removed in accordance with manufacturer guidelines and returned to a ready state.

Requisite Knowledge
Identify when it is safe to doff PPE
Identify AHJ policies and procedures for doffing PPE

Requisite Skills
Doff PPE
Return PPE to a ready state

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<td>CTS</td>
<td>Added a certification training standard.</td>
<td>NFPA 1051 does not include a designed JPR for doffing PPE.</td>
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<td>8-4: Doff Wildland Personal Protective Equipment</td>
<td>(CTS 8-4)</td>
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</tbody>
</table>
Section 9: Preparedness

9-1: Maintaining Assigned Personal Protective Equipment

Authority
NFPA 1051: Standard for Wildland Firefighting Personnel Professional Qualifications (2020)
  • Paragraph 4.3.2

Job Performance Requirement
Maintain assigned personal protective equipment, given the standard equipment issue, so that
the equipment is serviceable and available for use on the fireline and defects are recognized
and reported to the supervisor.

Requisite Knowledge
*Describe how to* maintain personal protective equipment, including inspection, the recognition
of unserviceable items, and proper cleaning procedures

Requisite Skills
None specified

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<td>9-1: Maintain Assigned Personal Protective Equipment</td>
<td>(CTS 9-1)</td>
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</table>
9-2: Maintaining Assigned Suppression Hand Tools and Equipment

Authority
NFPA 1051: Standard for Wildland Firefighting Personnel Professional Qualifications (2020)

• Paragraph 4.3.3

Job Performance Requirement
Maintain assigned suppression hand tools and equipment, given tools and equipment and AHJ maintenance specifications, so that assigned equipment is maintained and serviceable and defects are recognized and reported to the supervisor.

Requisite Knowledge
Describe how to inspect tools and assigned suppression equipment
Describe how to recognize unserviceable items
Describe required maintenance techniques

Requisite Skills
Sharpen assigned suppression equipment
Maintenance techniques for assigned suppression equipment
Use required maintenance equipment

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</table>
9-3: Maintaining Personal Gear Kit

Authority
NFPA 1051: Standard for Wildland Firefighting Personnel Professional Qualifications (2020)
  • Paragraph 4.3.4

Job Performance Requirement
Maintain personal gear kit, given a deployment and AHJ policies, so that mobilization response readiness meets AHJ requirements.

Requisite Knowledge
Describe contents of a personal gear kit
Identify type and duration of the incident
Describe AHJ requirements

Requisite Skills
None specified

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</table>
Section 10: Suppression

10-1: Assembling and Preparing for Response

Authority
NFPA 1051: Standard for Wildland Firefighting Personnel Professional Qualifications (2020)
  • Paragraph 4.5.2
Office of the State Fire Marshal

Job Performance Requirement
Assemble and prepare for response, given an assembly location, an assignment, incident location, mode of transportation, and time requirements, so that arrival at the incident with the required personnel and equipment meets AHJ guidelines.

Requisite Knowledge
Identify equipment required for response
Describe AHJ time standards and special transportation considerations
Describe AHJ safety response guidelines
Describe operational procedures for various response modes

Requisite Skills
None specified

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<tr>
<td>RK 1</td>
<td>Changed “requirements” to “required for response”.</td>
<td>Clarification. The student isn’t identifying the requirements of the equipment, they are identifying what equipment is required based on what the incident requires.</td>
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<tr>
<td>RK 2</td>
<td>Removed “(weight considerations)”.</td>
<td>Weight is not the only special transportation consideration.</td>
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<tr>
<td>RK 3</td>
<td>Added “response guidelines”.</td>
<td>Narrowing the scope of “agency safety” to pertain to the JPR.</td>
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<tr>
<td>RK 4</td>
<td>Changed “transportation” to “response”.</td>
<td>Transportation implies the type of vehicle in which the responders are traveling to the incident, not the response level. Revised for clarification.</td>
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<td>10-1: Assemble and Prepare for Response</td>
<td>(CTS 10-1)</td>
</tr>
</tbody>
</table>
10-2: Recognizing Hazards and Unsafe Situations

Authority
NFPA 1051: Standard for Wildland Firefighting Personnel Professional Qualifications (2020)
- Paragraph 4.5.3
Office of the State Fire Marshal

Job Performance Requirement
Recognize hazards and unsafe situations, given a wildland or wildland/urban interface fire or simulated scenario and the standard safety policies and procedures of the AHJ, so that the hazard(s) and unsafe condition(s) are communicated to the supervisor and appropriate action is taken.

Requisite Knowledge
Describe basic wildland fire safety
Describe basic wildland fire behavior
Identify basic wildland suppression methods
Describe the Standard Fire Fighting Orders
Describe the Situations that Shout “Watch Out”
Describe the principles of LCES (Lookouts, Communications, Escape Routes, Safety Zones)
Describe downhill checklist guideline
Describe Common Denominators of Fire Behavior on Tragedy Fires
Describe human factors that impact wildland fire suppression

Requisite Skills
Demonstrate knowledge of the Standard Fire Orders, the Situations that Shout “Watch Out”, and LCES

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<td>JPR</td>
<td>Added “or simulated scenario”</td>
<td>Allows option to complete testing outside of a live wildland fire.</td>
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<tr>
<td>RK 2</td>
<td>Added “basic wildland”</td>
<td>Added to narrow the scope of “fire behavior”.</td>
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<tr>
<td>RK 3</td>
<td>Added “basic wildland”</td>
<td>Added to narrow the scope of “suppression methods”.</td>
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<td>RK 4</td>
<td>Added knowledge component.</td>
<td>Added to align with NWCG S-130 fire fighter training.</td>
</tr>
<tr>
<td>RK 5</td>
<td>Added knowledge component.</td>
<td>Added to align with NWCG S-130 fire fighter training.</td>
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<tr>
<td>RK 6</td>
<td>Added knowledge component.</td>
<td>Added to align with NWCG S-130 fire fighter training.</td>
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<tr>
<td>RK 7</td>
<td>Added knowledge component.</td>
<td>Not covered by NFPA 1051 but it is an IRPG industry standard.</td>
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Fire Fighter 1 – Wildland  
Section 10: Suppression

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<td>10-2a: Use Incident Response Pocket Guide</td>
<td>(CTS 10-2)</td>
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<td>• RK 2</td>
<td>10-3b: Assume Safety Position for Retardant Drop</td>
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<td>Fire Fighter 1C, Topic 2-2: Recognizing Hazards and Unsafe Situations</td>
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<td>• RK 1, 4, 5, 6, 7, 8 and RS 1</td>
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<td>• RK 3</td>
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RK 8 Added knowledge component. Not covered by NFPA 1051 but it is an IRPG industry standard.

RK 9 Added knowledge component. NFPA does include human factors.

RS 1 Added skills component. Added to align with NWCG S-130 fire fighter training.
10-3: Constructing a Fireline

Authority
NFPA 1051: Standard for Wildland Firefighting Personnel Professional Qualifications (2020)
  • Paragraph 4.5.4
Office of the State Fire Marshal

Job Performance Requirement
Construct a fireline, given a wildland fire or simulated scenario, AHJ line construction standards, suppression tools, water or other suppression agents, and equipment, so that the fireline conforms to the construction standard.

Requisite Knowledge
Describe basic wildland suppression strategy
Identify basic wildland suppression tactics
Describe fireline construction principles, techniques, and standards
Describe safety considerations related to fireline construction
Describe how to construct a handline
Describe how to perform mobile attack
Describe how to perform a simple hose lay
Describe how to perform a progressive hose lay
Describe how to retrieve hose

Requisite Skills
Use hand tools properly
Apply fire streams
Apply extinguishing agents

Content Modification

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<thead>
<tr>
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<td>Added “or simulated scenario”.</td>
<td>Allows option to complete testing outside of a live wildland fire.</td>
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<tr>
<td>RK 1</td>
<td>Added knowledge component.</td>
<td>Statewide operational activities require more detail than provided by NFPA.</td>
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<td>Added knowledge component.</td>
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</tr>
<tr>
<td>RK 3</td>
<td>Changed the word order.</td>
<td>Revised to simplify and clarify language.</td>
</tr>
<tr>
<td>RK 4</td>
<td>Added knowledge component.</td>
<td>Not covered by NFPA 1051 but it is an IRPG industry standard.</td>
</tr>
<tr>
<td>RK 5</td>
<td>Added knowledge component.</td>
<td>Statewide operational activities require more detail than provided by NFPA.</td>
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<tr>
<td>RK 6</td>
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<tr>
<td>Component</td>
<td>Revised to Clarify Agent Type.</td>
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<td>RK 7</td>
<td>Added Knowledge Component.</td>
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<td>RK 8</td>
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<td>RK 9</td>
<td>Statewide Operational Activities Require More Detail Than Provided by NFPA.</td>
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<tr>
<td>RS 1-3</td>
<td>Revised to Put Verb First.</td>
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<td>RS 3</td>
<td>Added “Extinguishing”.</td>
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### Cross Reference

<table>
<thead>
<tr>
<th>Course Plan</th>
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</table>
| Fire Fighter 1C, Topic 3-2: Constructing a Fireline | 10-3a: Assemble, Use, and Maintain a Back Pump  
10-3b: Perform a Progressive Hose Lay (Hose)  
10-3b: Perform a Progressive Hose Lay (Nozzle)  
10-3c: Construct a Fireline Using Hand Tools  
10-3d: Perform Mobile Pumping | (CTS 10-3) |
10-4: Securing the Fireline

Authority
NFPA 1051: Standard for Wildland Firefighting Personnel Professional Qualifications (2020)
- Paragraph 4.5.5
Office of the State Fire Marshal

Job Performance Requirement
Secure the fireline, given a wildland fire or simulated scenario, suppression tools, water or other suppression agents, and equipment, so that fireline burning materials and unburned fuels are physically separated.

Requisite Knowledge
Describe line improvement techniques
Identify safety considerations
Describe how to use basic ignition devices

Requisite Skills
Use of basic ignition devices only under direct supervision

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<tr>
<td>JPR</td>
<td>Adjusted language.</td>
<td>NFPA standard for JPR was unclear and abatement is not always possible.</td>
</tr>
<tr>
<td>RK 3</td>
<td>Added a knowledge component.</td>
<td>Not included in NFPA 1051 but required by Cal OES. All type III engines must carry a drip torch.</td>
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<tr>
<td>Fire Fighter 1C, Topic 3-3: Securing a Fireline</td>
<td>10-4a: Ignite and Extinguish Road Flares and Fusees 10-4b: Assemble, Ignite, Extinguish, and Disassemble a Drip Torch</td>
<td>(CTS 10-4)</td>
</tr>
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</table>
10-5: Reducing the Threat of Fire Exposure to Improved Properties

Authority
NFPA 1051: Standard for Wildland Firefighting Personnel Professional Qualifications (2020)
  • Paragraph 4.5.6
Office of the State Fire Marshal

Job Performance Requirement
Describe the methods to reduce the threat of fire exposure to improved properties, given a wildland/urban interface fire or simulated scenario, suppression tools, and equipment, so that improvements are protected.

Requisite Knowledge
Describe wildland fire behavior within the wildland/urban interface
Describe wildland fuel removal for structure defense preparation
Describe structure defense methods
Identify equipment and personnel capabilities within the wildland/urban interface
Identify the difference between a safety zone and a temporary refuge area (TRA)

Requisite Skills
Use methods to protect improvements

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<td>RK 1</td>
<td>Added “within the wildland/urban interface”.</td>
<td>Expanding wildland fire behavior (covered in CTS 10-2) to include wildland/urban interface.</td>
</tr>
<tr>
<td>RK 2</td>
<td>Added “for structure defense preparation”.</td>
<td>Added to clarify the purpose and location of removal.</td>
</tr>
<tr>
<td>RK 4</td>
<td>Added “within the wildland/urban interface”.</td>
<td>Expanding wildland fire behavior (covered in CTS 10-2) to include wildland/urban interface.</td>
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<tr>
<td>RK 5</td>
<td>Added knowledge component.</td>
<td>NFPA does not adequately address safety.</td>
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<tr>
<td>Fire Fighter 1C, Topic 3-4: Reducing the Threat of Fire Exposure to Improved Properties (WUI)</td>
<td>10-5: Prep and Defend a Structure</td>
<td>(CTS 10-5)</td>
</tr>
</tbody>
</table>
10-6: Mopping Up a Fire Area

Authority
NFPA 1051: Standard for Wildland Firefighting Personnel Professional Qualifications (2020)
• Paragraph 4.5.7
Office of the State Fire Marshal

Job Performance Requirement
Mop up fire area, given a wildland fire or simulated scenario, suppression tools, and water or other suppression agents and equipment, so that burning fuels that threaten escape are located and extinguished.

Requisite Knowledge
Describe mop up principles, techniques, and standards

Requisite Skills
Use basic tools and techniques to perform mop-up operations

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<td>Fire Fighter 1C, Topic 3-5: Mopping Up in a Fire Area</td>
<td>10-6: Perform Mop Up Operations</td>
<td>(CTS 10-6)</td>
</tr>
</tbody>
</table>
10-7: Patrolling the Fire Area

Authority
NFPA 1051: Standard for Wildland Firefighting Personnel Professional Qualifications (2020)
  • Paragraph 4.5.8
Office of the State Fire Marshal

Job Performance Requirement
Patrol the fire area, given a wildland fire or simulated scenario, suppression tools, and equipment, so that containment of the fire area is maintained.

Requisite Knowledge
Describe patrol principles, techniques, and standards

Requisite Skills
Observe, identify, and take action on potential threats when patrolling fire areas

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<td>RS 1</td>
<td>Added “to patrolling fire areas”.</td>
<td>Revised to narrow scope of requisite knowledge application.</td>
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<td>10-7: Patrol the Fire Area</td>
<td>(CTS 10-7)</td>
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</table>
Revisions

This page documents changes made to the CTS guide since its initiation publication.

August 2020

The August 2020 changes reflect updates based on the 2020 edition of NFPA 1051 Standard for Wildland Firefighting Personnel Professional Qualifications. The staff review determined the following minor changes.

NFPA:
- All instances
  - Replaced the word “agency” with “AHJ”
- Paragraph 4.1.1
  - Added “AHJ required” to “first aid” in requisite knowledge
  - Removed “and NFES 2943, Wildland Fire Incident Management Field Guide” in requisite knowledge
- Paragraph 4.3.4
  - Added a new job performance requirement
- Paragraph 4.5.4
  - Replaced “correctly” with “properly” in requisite skills
- Paragraph 4.5.8
  - Replaced the word “control” with “containment” in JPR
  - Replaced “Apply requisite knowledge” with “Observe, identify, and take action on potential threats” in requisite skills

Impact
- Made all editorial changes
- Added the new JPR to the CTS guide as standard 9-3: Maintaining a Personal Gear Kit
- Added the new JPR to the Fire Fighter 1C: Wildland Fire Fighter course plan as Topic 2-7: Maintaining Personal Gear Kit
  - Most of the Topic 2-7 material was already covered in Topic 3-1: Assembling and Preparing for Response.
  - Moved the Application activity from 3-1 to 2-7
  - Adjusted time between 3-1 and 2-7
  - No addition to the certification task book and no skill sheet
  - No changes to time or cost for course delivery and/or testing

Documents Changed
- Fire Fighter 1 Certification Training Standards Guide (2019)
- Fire Fighter 1C: Wildland Fire Fighter Course Plan
• All Wildland skill sheets (9-1 through 9-2 and 10-1 through 10-7) to reflect NFPA edition number and editorial changes

August 2020